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International Application No. 3 2 2004
International Filing Date
" Annication"
Name of receiving Office and "PCT International Application"

REQUEST	International Filing Date			
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office and "PCT International Application" Applicant's or agent's file reference			
	(if desired) (12 characte	rs maximum) 3220-72178		
Box No. I TITLE OF INVENTION	E LIVER TISSUE			
BIOMATERIAL DERIVED FROM VERTEBRAT				
BOX NO. II ATT EXCENT	on is also inventor	Tolorius No.		
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residen		Telephone No. (765) 494-2610		
PURDUE RESEARCH FOUNDATION		Facsimile No. (765) 496-1277		
1291 Cumberland Avenue		Teleprinter No.		
West Lafayette, IN 47906				
US		Applicant's registration No. with the Office		
State (that is, country) of nationality:	State (that is, country)	of residence:		
US	US	the United States the States indicated in		
This person is applicant for the purposes of: all designated States all designated the United	ted States except States of America	of America only the Supplemental Box		
Box No. III FURTHER APPLICANT(S) AND/OR (FUR	THER) INVENTOR(S)			
Name and address: (Family name followed by given name; for a legal e The address must include postal code and name of country. The country o Box is the applicant's State (that is, country) of residence if no State of reside	ntity, full official designation. f the address indicated in this ence is indicated below.)	This person is: applicant only		
BADYLAK, Stephen Francis		applicant and inventor		
1150 Kingswood Road South West Lafayette, IN 47906		inventor only (If this check-box is marked, do not fill in below.)		
US		Applicant's registration No. with the Office		
State (that is, country) of nationality: US	State (that is, country US	y) of residence:		
m: annicont all designated all design	ated States except d States of America	the United States of America only the States indicated in the Supplemental Box		
Further applicants and/or (further) inventors are indicate	d on a continuation sheet			
Box No. IV AGENT OR COMMON REPRESENTATION	VE; OR ADDRESS FO	R CORRESPONDENCE		
The person identified below is hereby/has been appointed to a of the applicant(s) before the competent International Authorit	103 05.			
Name and address: (Family name followed by given name; for a legal The address must include postal code and name of	entity, full official designation	Telephone No. (317) 236-1313		
LAMMMERT, Steven R.		Facsimile No. (317) 231-7433		
BARNES & THORNBURG 11 South Meridian Street		Teleprinter No.		
Indianapolis, IN 46204				
US		Agent's registration No. with the Office 27653		
Address for correspondence: Mark this check-box wh	nere no agent or common i	representative is/has been appointed and the		
Address for correspondence: Mark this check-box will space above is used instead to indicate a special address	s to which correspondence			

Sheet No.		2		
Sheet ING.				

Jame and address: (Family name followed by given name: for a legal entity, fill official designation. The person is:		CANDEDON INVENTORS
State (that is, country) of nationality:	Continuation of Box No. III FURTHER APPLICANT(S)	AND/OR (FURTHER) INVENTOR(3)
This person is applicant only (If this check-box is marked, do not fill in below.) State (that is, country) of nationality: This person is applicant States (that is, country) of nationality: State (that is, country) of nationality: This person is applicant State (that is, country) of nationality: This person is applicant and inventor inventor only (If this check-box is marked, do not fill in below) Applicant is registration No. with the Office State (that is, country) of nationality: This person is applicant State (that is, country) of nationality: This person is applicant State (that is, country) of nationality: State (that is, country) of nationality: This person is applicant and inventor inventor only (If this check-box is marked, do not fill in below) Applicant's registration No. with the Office		
State (that is, country) of nationality: State (that is, country) of residence in the State indicated in this person is applicant and inventor In the address: (Tamily name followed by given name; for a legal entity, full official designation. Name and address: (Tamily name followed by given name; for a legal entity, full official designation. Name and address: (Tamily name followed in the State indicated in this person is applicant and inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office is marked, do not fill in below.) Applicant's registration N	Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of reside. RODENBERG, Eric James 3426 Cheswick Court, Apt. B-4 West Lafayette, IN 47906 US	applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office
This person is applicant all designated all designated States except the United States of America only the Supplemental Box for the purposes of: This person is applicant all designated all designated States America only applicant only applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence states	State (that is, country) of nationality: US	US
This person is applicant only applic	This person is applicant for the purposes of: all designated the United	States of America only the Supplemental Box
This person is applicant for the purposes of: All designated all designated all designated the United States of America only the Supplemental Box	Name and address: (Family name followed by given name; for a legal e The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of resid	applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)
This person is applicant for the purposes of: States States State fund is, country) of nationality: This person is applicant for the purposes of: State (that is, country) of nationality: This person is applicant of America only of the States indicated in this person is: """ """ """ """ """ """ """	State (that is, country) of nationality:	State (that is, country) of residence:
Name and address: (Family name followed by given name; for a legal entity, full official designation. This person is: applicant only applicant and inventor applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) State (that is, country) of residence: State (that is, country) of residence: This person is applicant all designated all designated States except the United States of America only the States indicated in this Box is the applicant's State (that is, country) of residence: This person is applicant all designated all designated States except the United States of America only the States indicated in the Supplemental Box the States indicated in this Box is the applicant's State (that is, country) of residence is indicated below.) State (that is, country) of nationality: State (that is, country) of residence: the United States of America only applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	This person is applicant all designated all design the Unite	
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This person is applicant for the purposes of: all designated all designated States except the United States of America of America only the States indicated in the Supplemental Box of America only the States indicated in the Supplemental Box of America only the States indicated in the Supplemental Box of America only This person is: This person is: applicant only applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: the United States the States indicated in this inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office the United States the United States the United States the States indicated in this inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office the United States the United States the United States the States indicated in this Applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant is negligible the United States the Supplemental Box the Supplem	State (that is, country) of nationality:	State (that is, country) of residence:
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office State (that is, country) of residence: This person is applicant all designated all designated States except the United States of America only the Supplemental Box of America only the Supplemental Box	This person is applicant all designated all designated	onated States except Inc. on the Complemental Roy
State (that is, country) of nationality. This person is applicant for the purposes of: all designated States except the United States of America only the Supplemental Box	Name and address: (Family name followed by given name; for a leg	al entity, full official designation. ry of the address indicated in this sidence is indicated below.) This person is: applicant only applicant and inventor inventor only (If this check-box
This person is applicant for the purposes of: all designated States all designated States of America of America only the Supplemental Box	State (that is, country) of nationality:	
	I Ims belson is applicant	
		cated on another continuation sheet.

Sheet	Nο	-3	

Box	No.	v	DESIGNATION OF STATES	Mar	k the applicable check-boxes below; a	least	one must be marked.
			ng designations are hereby made unde	r Rule	4.9(a):		
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		G T	API Patent: BF Burkina Faso, BJ I GA Gabon, GN Guinea, GQ Equatori D Chad, TG Togo, and any other Star of protection or treatment desired, spec	al Gui te whi ify on	inea, GW Guinea-Bissau, ML Mali, ch is a member State of OAPI and a dotted line)	MR N	Mauritania, NE Niger, SN Senegal,
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-	othe	r de ude	esignations which would be permitted to the second the scope of this statement. The	appl	icant declares that those additional de	ignati	licant also makes under Rule 4.9(b) all ated in the Supplemental Box as being ons are subject to confirmation and that te is to be regarded as withdrawn by the ing Office within the 15-month time limit.)
1	app	ııcal	ne at the expitation of the				G N

	S	heet No		
Box No. VI PRIORITY	CLAIM			
The priority of the following	g earlier application(s) is here	by claimed:		
Filing date	Number	V	Where earlier application	is:
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1) 11 January 2002 (11.01.02)	60/347,541	us		
item (2)				
item (3)				
item (4)				
item (5)				
Further priority claim	s are indicated in the Suppler	nental Box.		
Industrial Property or one	ation is an ARIPO application Member of the World Trade		try party to the Paris Cor at earlier application was	vention for the Protection of filed (Rule 4.10(b)(ii)):
	ATIONAL SEARCHING A			
TCA / US	Searching Authority (ISA) cate the Authority chosen; the			
15A /	f earlier search; reference	to that search (if an earlie	er search has been carried	d out by or requested from the
International Searching A Date (day/month/year)	(uthority):		ountry (or regional Offic	
Box No. VIII DECLA	RATIONS			
The following declarati	ons are contained in Boxes New Micate in the right column the	Nos. VIII (i) to (v) (mark to number of each type of dec	he applicable claration):	Number of declarations
Box No. VIII (i)	Declaration as to the id	lentity of the inventor		:
Box No. VIII (ii)	date, to apply for and			
Box No. VIII (iii)	Declaration as to the date, to claim the price	applicant's entitlement, as ority of the earlier applica	s at the international filination	ng : 1
Box No. VIII (iv)	Declaration of inventor United States of Ame	orship (only for the purpos rica)	ses of the designation of	the :
Box No. VIII (v)	Declaration as to non	-prejudicial disclosures or	exceptions to lack of no	velty :

Sheet No. . . 5

Box No. VIII (ii) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRANTED A PATENT.

The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (ii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:

in relation to this international application,

PURDUE RESEARCH FOUNDATION is entitled to apply for and be granted a patent by virtue of the following:

an assignment from BADYLAK, Stephen Francis and RODENBERG, Eric James to PURDUE RESEARCH FOUNDATION dated 03 January 2003 (03.01.03) and 08 January 2003 (08.01.03), respectively.

This declaration is made for the purposes of all designations, except the designation of the United States of America.

This declaration is continued on the following sheet, "Continuation of Box No. VIII (ii)".

DECLARATION: ENTITLEMENT TO CLAIM PRIORITY

The declaration must conform to the standardized wording provided for in Section 213; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) Box No. VIII (iii) and the specific Notes to Box No.VIII (iii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)):

in relation to this international application,

PURDUE RESEARCH FOUNDATION is entitled to claim priority of earlier application

no. 60/347,541

by virtue of the following:

an assignment from BADYLAK, Stephen Francis and RODENBERG, Eric James to PURDUE RESEARCH FOUNDATION dated 03 January 2003 (03.01.03) and 08 January 2003 (08.01.03), respectively.

This declaration is made for the purposes of all designations, except the designation of the United States of America.

This declaration is continued on the following sheet, "Continuation of Box No. VIII (iii)".

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Sheet No.	,

Box No. IX CHECK LIST; LANGUAGE C	OF FILING	
This international application contains:		Number of items
(a) in paper form, the following number of	item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	, items
sheets:	1. The fee calculation sheet	1
request (including declaration sheets) : 7	2. original separate power of attorney	ŀ
description (excluding	3. XX XXXX general power of attorney	1
sequence listings and/or tables related thereto) : 23	4. Copy of Langs power beattorney; reference number,	2
claims : 2	if any:	
abstract : 1	5. statement explaining lack of signature	
drawings :	6. priority document(s) identified in Box No. VI as item(s):	ŀ
Sub-total number of sheets: 33	7. The translation of international application into	
sequence listings :	(language):	
tables related thereto :	8. separate indications concerning deposited microorganism or other biological material	
(for both, actual number of sheets if filed in paper form,	o \square sequence listings in computer readable form	
whether or not also filed in computer readable form;	(indicate type and number of carriers) (i) copy submitted for the purposes of international search under	
see (c) below) Total number of sheets 33	Rule 13ter only (and not as part of the international application)	:
(b) only in computer readable form	(ii) (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter	:
(Section 801(a)(i)) (i) ☐ sequence listings	(iii) together with relevant statement as to the identity of the copy or copies with the sequence listings mentioned in left column	
(ii) tables related thereto	10 tables in computer readable form related to sequence listings	
(c) also in computer readable form (Section 801(a)(ii))	(indicate type and number of carriers) (i) Copy submitted for the purposes of international search under	
(i) ☐ sequence listings (ii) ☐ tables related thereto	Section 802(b-quater) only (and not as part of the international application)	:
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contained the sequence listings:	(iii) I together with relevant statement as to the identity of the copy or	
tables related thereto:	copies with the tables mentioned in left column	: : 2
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	11. 🗷 other (specify): Transmittal Letter & Postal Card	
	Language of filing of the English (EN)	
Figure of the drawings which should accompany the abstract:	international application:	
Box No. X SIGNATURE OF APPLICAN	IT, AGENT OR COMMON REPRESENTATIVE graing and the capacity in which the person signs (if such capacity is not obvious from reading the	ne request).
Next to each signature, indicate the name of the person si	5,111,5,414,110,04,110,110,110,110,110,110,110,	
	10. O O	
Palecca V	(1 ₀ () ())	
Rebecca BALL, Agent for Applicants		
Neuecca DALL, Agent for Applicants	•	
	For receiving Office use only	
1. Date of actual receipt of the purported	2. Drawi	ngs:
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3. Corrected date of actual receipt due to later	but	
timely received papers or drawings comple the purported international application:	ting	
	not r	eceived:
4. Date of timely receipt of the required corrections under PCT Article 11(2):		
5. International Searching Authority	6. Transmittal of search copy delayed	
(if two or more are competent): ISA /	until search fee is paid	
	For International Bureau use only	
Date of receipt of the record copy		
by the International Bureau:		
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